

**FIRE APPARATUS TECHNICIAN
STUDY GUIDE**

A written examination for the class of **FIRE APPARATUS TECHNICIAN** to be administered in **ALEXANDRIA** on **MAY 6, 2014**, will consist of approximately **100** multiple-choice questions. The examination will test your knowledge in the following subject areas:

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
SUSPENSION & BRAKE SYSTEMS Knowledge of suspension and brake systems sufficient to perform maintenance, make repairs, or adjust the systems when needed.	9.0%
AIR COOLING SYSTEMS Knowledge of air and cooling systems sufficient to perform maintenance and repair when needed.	5.0%
DRIVE TRAIN/LUBRICATING/ELECTRICAL/FUEL SYSTEMS Knowledge of drive train, lubricating, electrical, and fuel systems sufficient to perform maintenance, repairs or adjustments to the system when needed.	17.0%
ENGINE MECHANICS Knowledge of diesel engines sufficient to perform diagnosis of mechanical problems and to perform maintenance and repair.	5.0%
GENERAL AUTOMOTIVE MAINTENANCE, REPAIRS, INSTRUMENTS, AND TOOLS Knowledge of general automotive equipment, instruments, and tools sufficient to troubleshoot, diagnose, and repair malfunctioning components, including the use and care of instruments and tools, and verifying that equipment is tested and meets applicable standards.	34.0%
MANAGING EQUIPMENT/PROPERTY/SUPPLIES Knowledge of the management, maintenance, and purchasing of equipment, property, and supplies, including inventory control, and the preparation of specifications on new fire equipment.	8.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
RECORDS Knowledge of effective records-keeping practices, including preparation, content, format, and control.	5.0%
INSPECTION, MAINTENANCE, TESTING, & REPAIR OF PORTABLE EQUIPMENT Knowledge of fire apparatus sufficient to perform inspections, maintenance, testing, and repair, including rotary gears, pumps, water delivery systems, nozzle and nozzle assemblies, aerial ladders, and hydraulic systems.	17.0%

REFERENCE LIST

While the entire list of reference material will be useful to you in your preparation for the upcoming examination, the **majority** of test questions are sourced from those references listed under the Primary List.

PRIMARY REFERENCE MATERIAL

MODERN AUTOMOTIVE TECHNOLOGY, James E. Duffy, The Goodheart-Willcox Co., Inc., 2004.

The local civil service board should make this study guide available to all applicants in whatever manner the board deems appropriate.

While there are no provisions requiring this office to provide study guides for any competitive or promotional examinations, such material will be provided as a service to assist applicants in preparing for an examination. The State Examiner's office has no control whatsoever over the local availability of reference material (mentioned in the study guides), nor do we feel constrained to limit examination questions to only that material which is available locally. Examination content, weighting of subject areas, and length of examination, may vary with each administration of an examination to reflect any updated job analysis information. Percentages and numerical estimations are provided as approximations.